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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/044,368	01/10/2002	Thomas E. Broome	1001.1388101	8240	
	7590 09/10/200 SEAGER & TUFTE, L		EXAMINER		
1221 NICOLLET AVENUE			EREZO, DARWIN P		
SUITE 800 MINNEAPOLI	S, MN 55403-2420		ART UNIT	PAPER NUMBER	
			3731		
		,			
			MAIL DATE	DELIVERY MODE	
			09/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/044,368	BROOME ET AL.	
Office Action Summary	Examiner	Art Unit	
	Darwin P. Erezo	3731	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	th the correspondence address -	-
• •	DIVIO CETTO EVOIDE AM	ONTU(C) OR TURTY (20) DAY	/ C
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION AT 1.136(a). In no event, however, may a reprise of the community of	CATION. eply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status		•	
1)⊠ Responsive to communication(s) filed on 2	5 June 2007.		
,	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal matt	ers, prosecution as to the merits	s is
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>5-31,52,54-72 and 74-93</u> is/are pe	ending in the application.		
4a) Of the above claim(s) <u>5-31</u> is/are withdr	- · · ·		
5) Claim(s) is/are allowed.		<i>'</i>	
6) Claim(s) 52,54-72 and 74-93 is/are rejected	d.	(
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		
Application Papers		ŧ	
9) The specification is objected to by the Exan	niner.		
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the con	rrection is required if the drawing	(s) is objected to. See 37 CFR 1.12	.1(d).
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attached	d Office Action or form PTO-152	.•
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. §	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
 Certified copies of the priority docum 	nents have been received.		
2. Certified copies of the priority docum	nents have been received in A	Application No	
Copies of the certified copies of the 		received in this National Stage	
application from the International Bu			
* See the attached detailed Office action for a	list of the certified copies not	received.	
	•		
Attachment(s)	,		
1) Notice of References Cited (PTO-892)	· —	Summary (PTO-413)	,
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE 	′	s)/Mail Date nformal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/25/07 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 52, 54, 55, 57-72, 74, 75 and 77-93 are rejected under 35 U.S.C. 102(e) as being anticipated by US 6,605,102 to Mazzocchi et al.

As to claims 52, 72 and 92, Fig. 11B discloses a filter assembly comprising an elongate shaft **265**, a filter **270** disposed and attached to a distal end of the shaft, the filter including a filtering region and an attachment region (col. 19, line 66 – col. 20, line 8). The filtering region includes a major opening defined adjacent the proximal end (seen in Fig. 18B) and is comprised of a single layer of filter membrane that is folded

onto itself to define a filter basked and extending between the major opening and the distal end of the filtering region, the filtering region comprising apertures to allow the passage of blood through the filtering region; the filter membrane further comprising a first tapered portion defining a first angle that is lesser (different) than a second angle defined by a second tapered portion (see attached in the Office Action dated 06/01/2006).

Mazzocchi also discloses a filter having an expanded (Fig. 11B) and contracted shape (Fig. 11A); wherein the filtering region has at least one single layer of filter membrane in the expanded shape.

As to claims 54, 55, 74 and 75, different portions of the filter can be sectioned off to be called the first or second portion, and each of these portion can be selected so that the first portion has a conical shape and the second portion has a frustoconical shape.

As to claims 57 and 77, the filter membrane is viewed as an expandable frame membrane because the transition from Fig. 11A to 11B shows the filter membrane expanding.

As to claims 58-60 and 78-80, the filter membrane (frame) is formed from Nitinol (col. 5, lines 27-52).

As to claims 61-63 and 81-83, the filter membrane is viewed as having filter struts and a filter mouth frame because the filter membrane is comprised of wire strands that are intertwined with each other, and thus are capable of biasing the filter to any

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position, including an expanded position, and any portion of the filter can be called the filter mouth.

As to claims 64-69 and 84-89, see Fig. 12A regarding the dimension of the first tapered portion relative to retrieval sheath **C**, which is used to retrieve the filter. The filter is also viewed as having a wire that limits the tapering portion because the filter itself is comprised of a wire.

As to claims 70,71,90,91 and 93, see Fig. 11B, which shows an attachment region of the filter membrane and (at least four) struts **290**.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 56 and 76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mazzocchi et al. and in view of US 5,814,064 to Daniel et al.

Mazzocchi teaches all the limitations of the claim except for the filter membrane comprising a polyurethane. Instead, the filter membrane of Mazzocchi comprises metal. However, Daniel teaches a filter assembly comprising an elongated shaft with a filter membrane forming a filter basket (Fig. 18B), which is similar to Mazzocchi. Daniel further teaches the filter membrane to be made of polyurethane (col. 10, line 44-45). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use polyurethane in the filter membrane of Mazzocchi because

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Daniel teaches that polyurethane can be used to form filter membranes. As such, using a specific type of material to form the filter membrane would be a mere design choice to one of ordinary skill in the art.

Response to Arguments

- 6. Applicant's arguments filed 6/25/07 have been fully considered but they are not persuasive.
- 7. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the filtering region consisting of a single layer) does not limit the claim to just having one layer). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). The examiner agrees that there are structural differences between the instant application and the Mazzocchi reference. However, the claim language does not limit the filtering region to one layer since the claim is still open-ended, i.e., it still does not limit the device from including an additional layer. If the applicant wants to limit the claim to just having one layer, it is suggested to change the claim to recite the transitional phrase of "consisting of". This could be done by the following examples: "A filter assembly... consisting of:" or "the filtering region consisting of".

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Darwin P. Erezo whose telephone number is (571) 272-4695. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jackie Ho can be reached on (571) 272-4696. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Darwin P. Erezo

Examiner

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